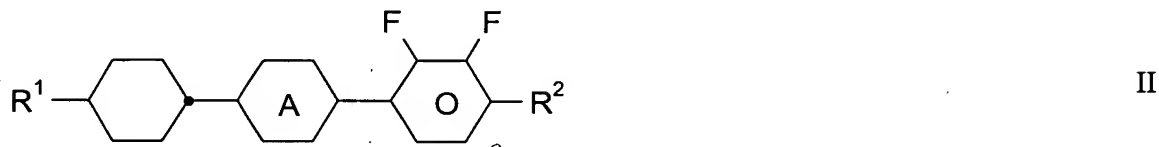


CLAIMS

1. A liquid-crystalline medium, which comprises one or more compounds of the formula I



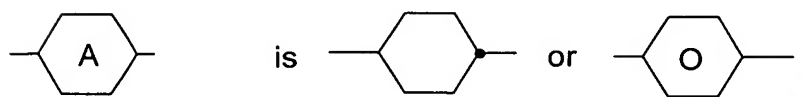
one or more compounds of the formula II



and one or more polymerizable compounds,

wherein

R^1 and R^2 are each, independently of one another, alkyl having from 1 to 12 carbon atoms, in which one or two non-adjacent CH_2 groups are optionally replaced by -O-, -CH=CH-, -CO-, -OCO- or -COO- in such a way that O atoms are not linked directly to one another, and



2. Medium according to claim 1, wherein the one or more polymerizable compounds are selected from those of the formula I*



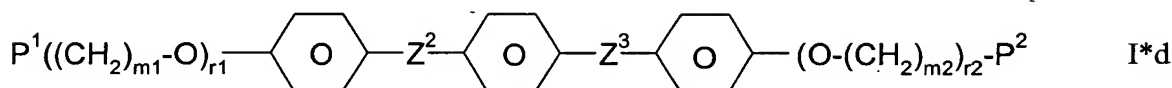
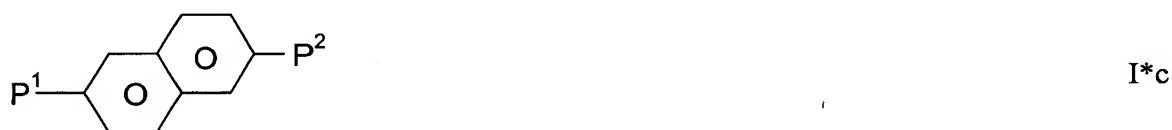
in which

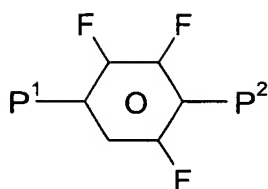
- R is H, F, Cl, CN, SCN, SF₃H, NO₂, straight-chain or branched alkyl having from 1 to 12 carbon atoms, in which one or two non-adjacent CH₂ groups are optionally replaced by -O-, -S-, -CO-, -OCO-, -COO-, -O-COO-, -S-CO-, -CO-S-, -CH=CH- or -C≡C- in such a way that O and/or S atoms are not linked directly to one another, or R is -X²-Sp²-P²,
- P¹ and P² are each, independently of one another, a polymerizable group,
- Sp¹ and Sp² are each, independently of one another, a spacer group or a single bond,
- X¹ and X² are each, independently of one another, -O-, -S-, -OCH₂-, -CH₂O-, -CO-, -COO-, -OCO-, -OCO-O-, -CO-NR⁰-, -NR⁰-CO-, -OCH₂-, -CH₂O-, -SCH₂-, -CH₂S-, -CH=CH-COO-, -OOC-CH=CH- or a single bond,
- A¹ and A² are each, independently of one another, 1,4-phenylene, in which one or more CH groups are optionally replaced by N; 1,4-cyclohexylene, in which one or more non-adjacent CH₂ groups are optionally replaced by O and/or S; 1,4-cyclohexenylene; 1,4-bicyclo[2.2.2]octylene; piperidine-1,4-diyl; naphthalene-2,6-diyl; decahydronaphthalene-2,6-diyl; 1,2,3,4-tetrahydronaphthalene-2,6-diyl; or indane-2,5-diyl; where all these groups may be unsubstituted or monosubstituted or polysubstituted by L,
- L is F, Cl, CN or alkyl, alkoxy, alkylcarbonyl, alkoxycarbonyl or alkylcarbonyloxy having from 1 to 7 carbon atoms, in which one or more H atoms are optionally replaced by F or Cl,
- Z¹ is -O-, -S-, -CO-, -COO-, -OCO-, -O-COO-, -OCH₂-, -CH₂O-, -SCH₂-, -CH₂S-, -CF₂O-, -OCF₂-, -CF₂S-, -SCF₂-, -CH₂CH₂-, -CF₂CH₂-, -CH₂CF₂-, -CF₂CF₂-, -CH=CH-, -CF=CF-, -C≡C-, -CH=CH-COO-, -OCO-CH=CH-, CR⁰R⁰⁰ or a single bond,

R^0 and R^{00} are each, independently of one another, H or alkyl having from 1 to 4 carbon atoms, and

n is 0, 1 or 2.

3. Medium according to Claim 2, wherein the one or more polymerizable compounds are selected from those of the following formulae:



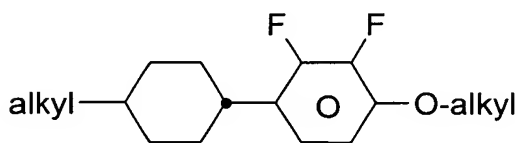


I^{*h}

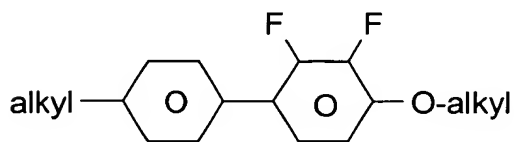
in which P¹ and P² are as defined above, Z² and Z³ are each, independently of one another, as defined for Z¹, m₁ and m₂ are each, independently of one another, from 1 to 8, r₁ and r₂ are each, independently of one another, 0 or 1, and R^a and R^b are each, independently of one another, H or CH₃.

4. Medium according to Claim 2, wherein P¹ and P² are independently acrylate, methacrylate, vinyl, vinyloxy, propenyl ether or epoxy.

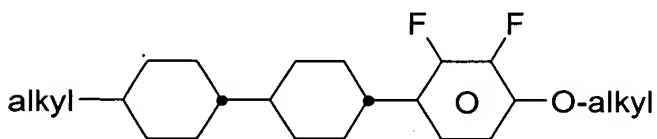
5. Medium according to Claim 1, wherein the compounds of the formulae I are selected from those of formulae Ia and Ib and the compounds of formula II are selected from those of the formulae IIa-IId:



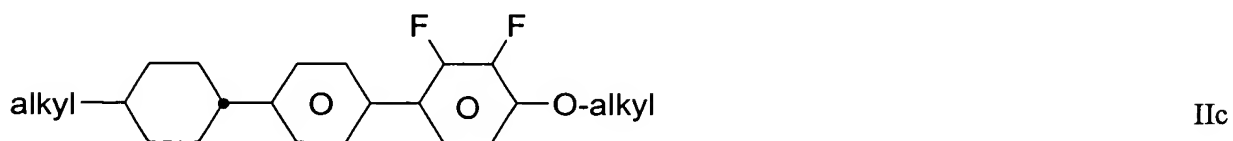
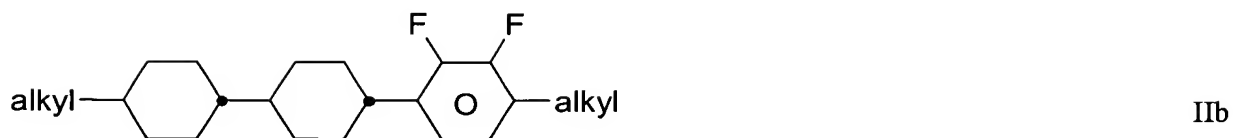
Ia



Ib

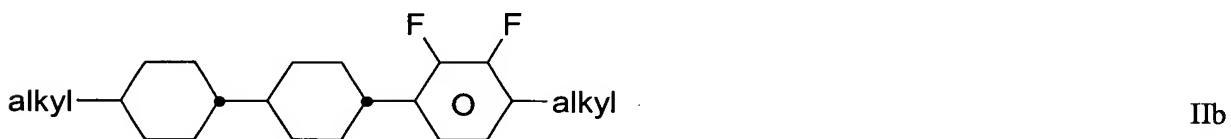
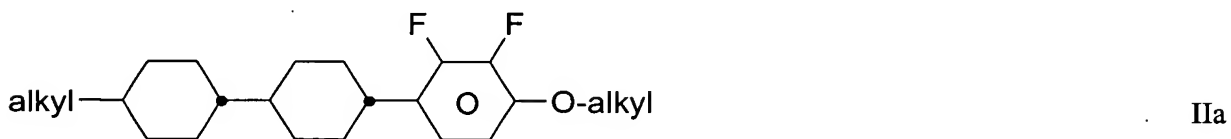


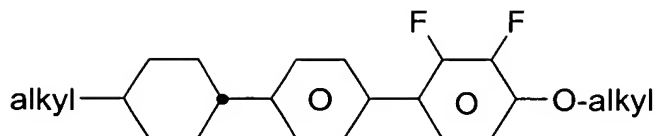
IIa



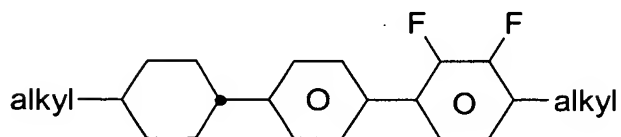
in which alkyl is C₁₋₆-alkyl.

6. Medium according to Claim 2, wherein the compounds of the formulae I are selected from those of formulae Ia and Ib and the compounds of formula II are selected from those of the formulae IIa-IId:





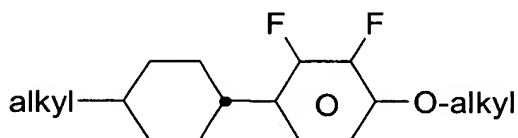
IIc



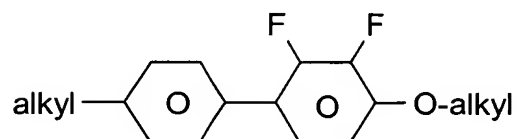
IIId

in which alkyl is C₁₋₆-alkyl.

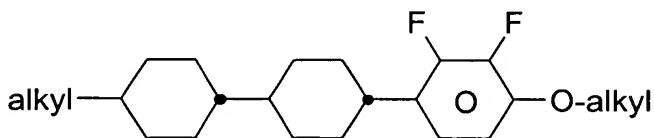
7. Medium according to Claim 3, wherein the compounds of the formulae I are selected from those of formulae Ia and Ib and the compounds of formula II are selected from those of the formulae IIa-IId:



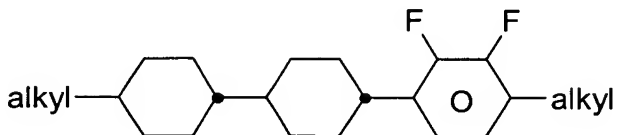
Ia



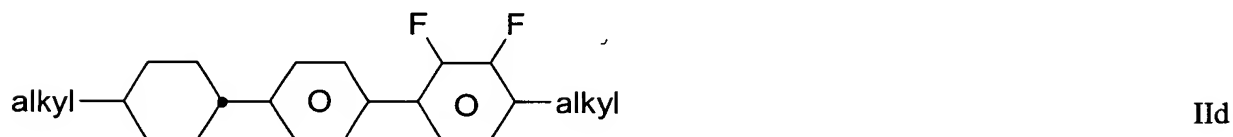
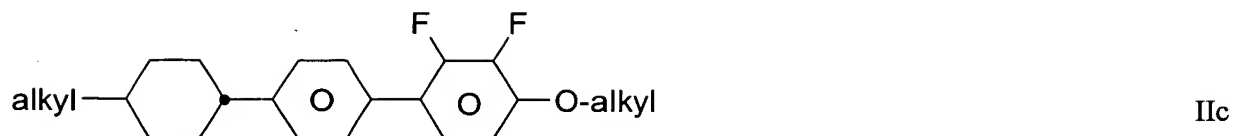
Ib



IIa



IIb

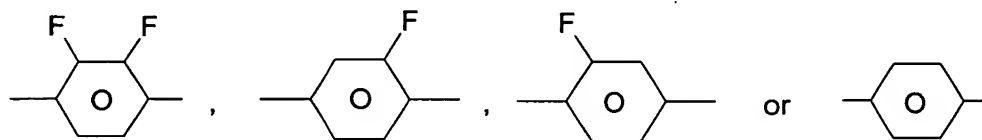
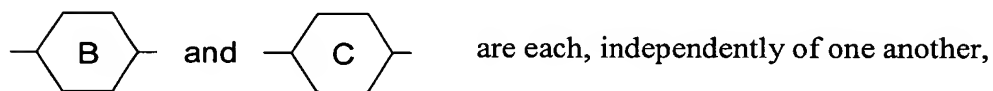


in which alkyl is C₁₋₆-alkyl.

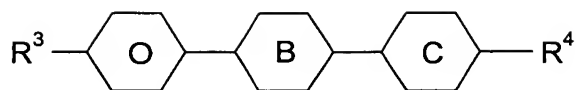
8. Medium according to Claim 1, which additionally comprises one or more compounds of the formula III:



in which R³ and R⁴, independently of one another, are as defined for R¹, and

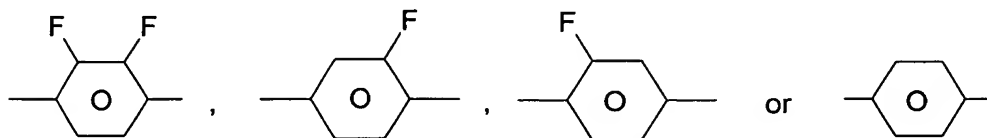
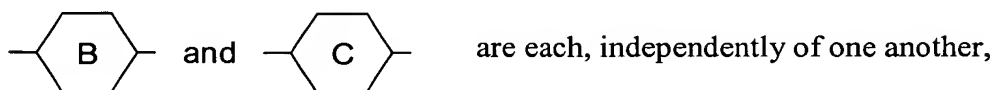


9. Medium according to Claim 2, which additionally comprises one or more compounds of the formula III:

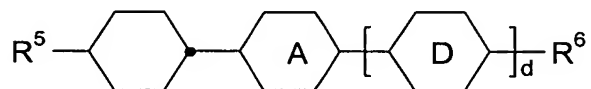


III

in which R^3 and R^4 , independently of one another, are as defined for R^1 , and



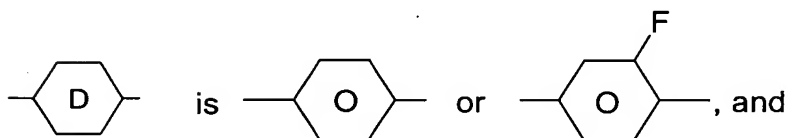
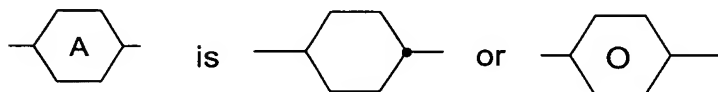
10. Medium according to Claim 1, which additionally comprises one or more compounds of the formula IV:



IV

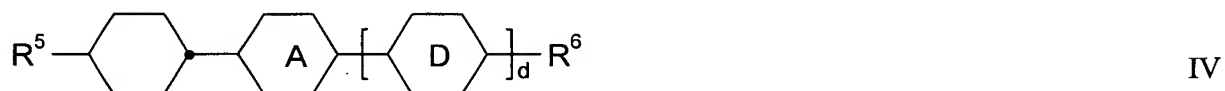
in which

R^5 and R^6 , independently of one another, are as defined for R^1 ,



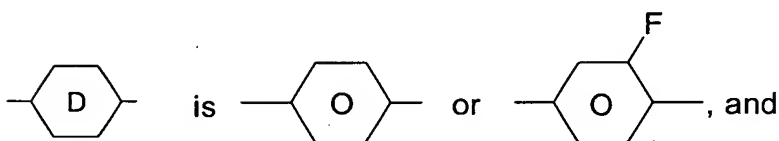
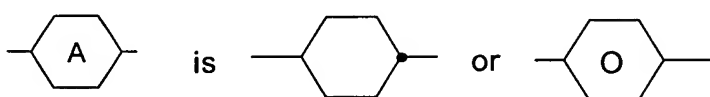
d is 0 or 1.

11. Medium according to Claim 2, which additionally comprises one or more compounds of the formula IV:



in which

R^5 and R^6 , independently of one another, are as defined for R^1 ,



d is 0 or 1.

12. Medium according to Claim 10, which consists essentially of:
 from 1 to 4 compounds of the formula I, from 1 to 6 compounds of the formula II,
 from 1 to 5 compounds of the formula IV and 1 or 2 polymerizable compounds.

13. Medium according to Claim 11, which consists essentially of:

15 - 60% by weight of one or more compounds of the formula I,

20 - 60% by weight of one or more compounds of the formula II,

20 - 50% by weight of one or more compounds of the formula IV, and

0.1 - 2% by weight of one or more polymerizable compounds of the formula I*.

14. An electro-optical display having active-matrix addressing, which comprises, as dielectric, a liquid-crystalline medium according to Claim 1.

15. An electro-optical display having active-matrix addressing, which comprises, as dielectric, a liquid-crystalline medium according to Claim 2.

16. An electro-optical display having active-matrix addressing, which comprises, as dielectric, a liquid-crystalline medium according to Claim 11.

17. An electro-optical display having active-matrix addressing, which comprises, as dielectric, a liquid-crystalline medium according to Claim 13.

18. An electro-optical display according to Claim 14, which display is based on the ECB, VA, MVA, PVA, DAP or CSH effect.

19. An electro-optical display according to Claim 17, which display is based on the ECB, VA, MVA, PVA, DAP or CSH effect.